1. Alignment and Adjustments

1-1 Instruction

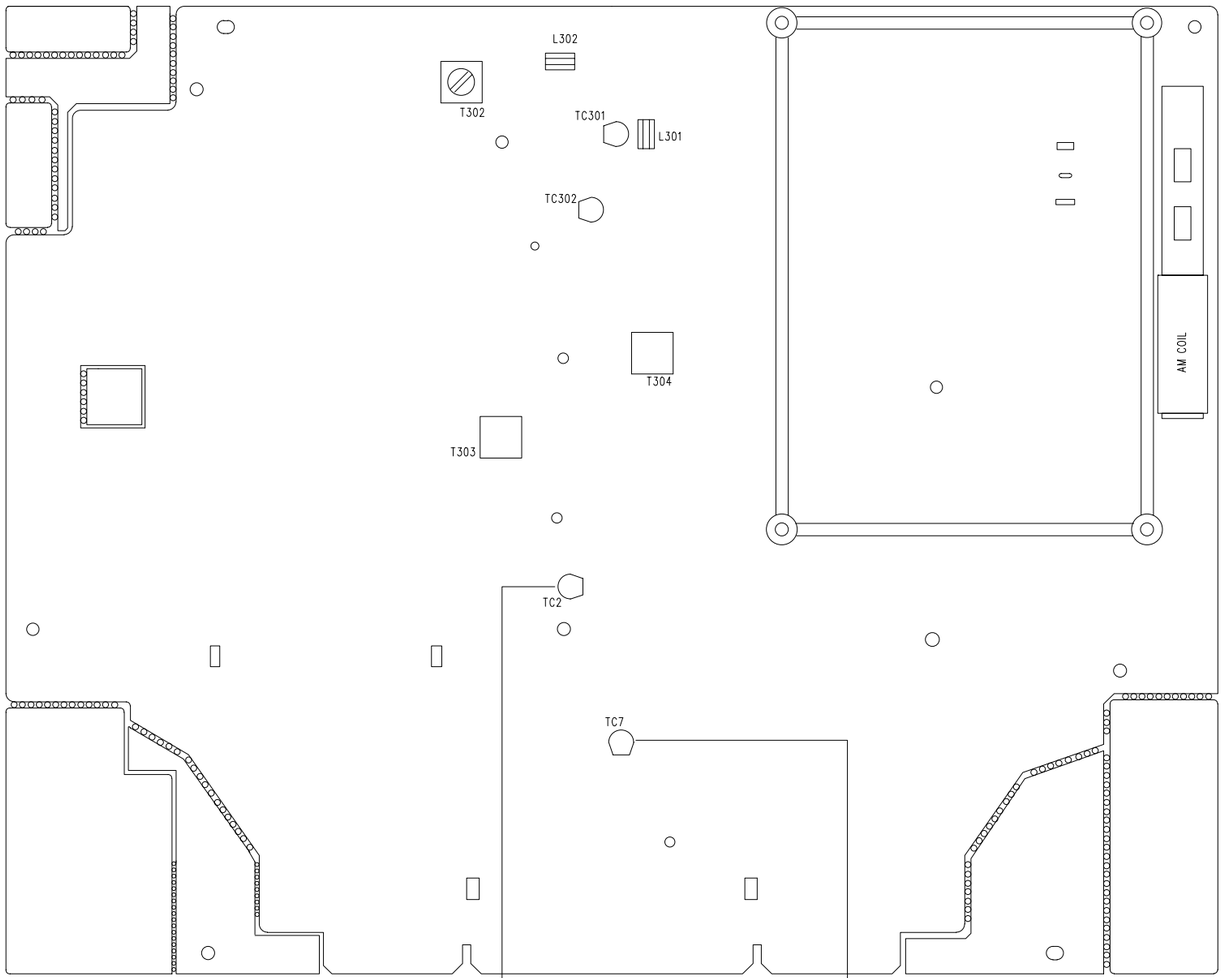

Fig 1-1 Location Of Adjustment Point

IC303 OSC Freqency	
Adjust. Point	FREQ.
TC2	7.200 MHz
Connection (Fig 1-2)	

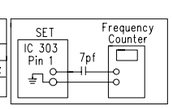

Fig 1-2

IC201 OSC Freqency	
Adjust. Point	FREQ.
TC7	4.000 MHz
Connection (Fig 1-3)	

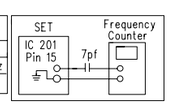

Fig 1-3

1-1-1 Test Equipment
1. AM/FM Standard Signal Generator (S.S.G)
   -AM : 1KHz,30% MOD -FM : 1KHz,75KHz(Deviation)
2. Oscilloscope
3. VTVM
4. Frequency counter
5. Loop antenna
6. Dummy load (4Ω)
7. DIGITAL DC voltmeter
8. FM Stereo Modulator
9. FM/AM IF Generator : 10.7MHz,455KHz

1-1-2 Pre-Adjustment
1. Check the source voltage
2. Select desired Band and Function.
3. Set the S.BASS control and PRE-EQ to off position.
4. Set volume control to approximaterly 50mW(4ohm)

1-2 Tuner Section

1-2-1 FM Adjustment

Step	Item	Connection	SSG.FREQ.	FREQ. Setting	Adjust. Point	Remark
1	Intermediate frequency (IF) adjustment	Fig 1-4	10.7 MHz	Tune to the lowest	FM IFT : T302	Maximum output
2	FM frequency coverage adjustment	Fig 1-5	87.5 MHz	Tune to the lowest	Check	1.1V
3			108 MHz	Tune to the highest	OSC COIL : L302	6.0V
4	FM tracking adjustment	Fig 1-6	90 MHz	90 MHz	L301	Maximum output
5			106 MHz	106 MHz	TC301	Maximum output
6	Stereo separation adjustment	Fig 1-3 Connect Stereo generatorto S.S.G additionally	98 MHz	98 MHz	Not required	

FM IF OUTPUT : PIN NO . 19 of IC 302(TA8132AN) - Freference next page (FIG 1-4)

IF GENERATOR TUNER PART

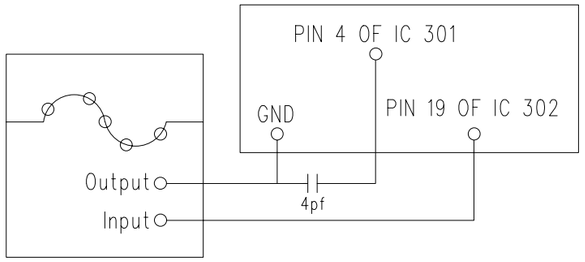

Fig 1-4

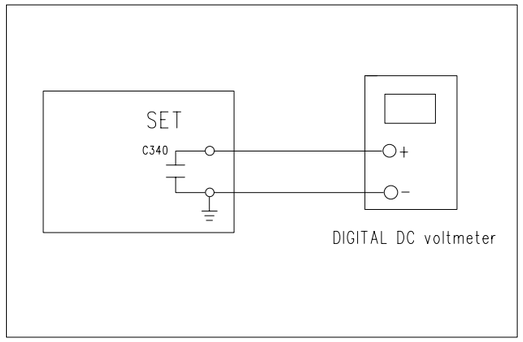

Fig 1-5

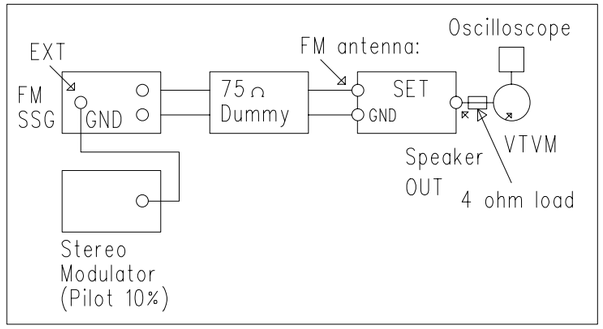

Fig 1-6

1-2-2 AM Adjustment(2BAND)

Step	Item	Connection	SSG.FREQ.	FREQ. Setting	Adjust. Point	Remark
1	Intermediate frequency (IF) adjustment	Fig 1-7	450 KHz	Tune to the lowest	AM IFT : T303	Maximum output
2	AM frequency coverage adjustment	Fig 1-5	522 KHz	Tune to the lowest	Check	0.8V
3			1622 KHz	Tune to the highest	OSC COIL : T304	7.0 V
4	AM tracking adjustment	Fig 1-8	594 KHz	594 KHz	AM ANT COIL	Maximum output
5			1404 KHz	1404 KHz	TRIMMER : TC302	Maximum output

AM IF OUTPUT : PIN NO. 6 of IC302(TA8132AN)

IF GENERATOR TUNER PART

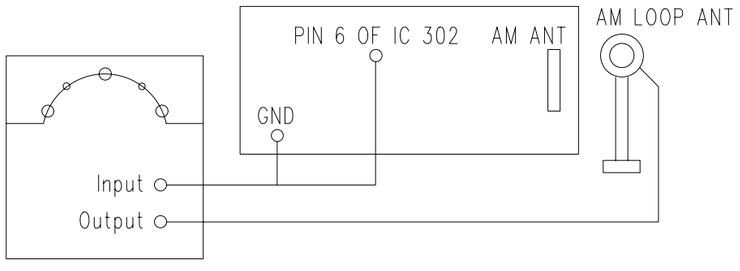

Fig 1-7

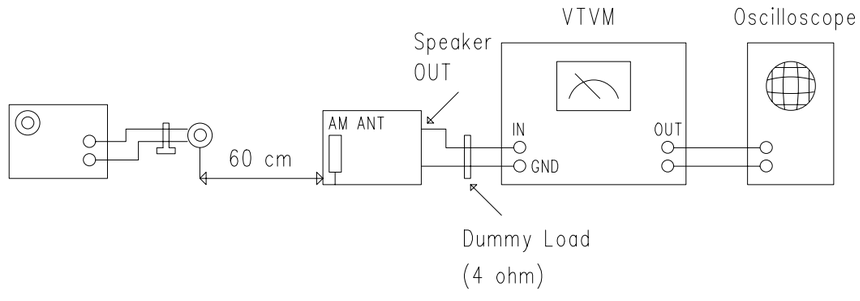

Fig 1-8

1-3. Deck Section

1-3-1. Recording BIAS adjustment

1) Conneet frequency counter C701 (See Fig.1-9) and press the Record button.

2) Adjust T701 (BIAS OSC COIL)until frequency counter reads 80KHz

1-3-2. Tape AZIMUTH adjustment

1) Connect the equipments as per Fig.1-10 to adjust the tape azimuth with test tape (recorded at 6.3KHz : MTT-113N)

2) Play the test tape after inserting in DECK.

3) Adjust the azimuth adjustment screw of left side of record/play head for maximum output and for the same channel phase.(see Fig.1-10)

1-3-3. Tape speed adjustment

1) Connect the equipments as shown in Fig.1-11 adjust the tape speed with test tape (recorded at 3KHz : MTT-111N)

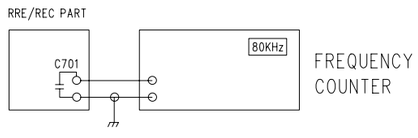

Fig.1-9 Recording bias adjustment

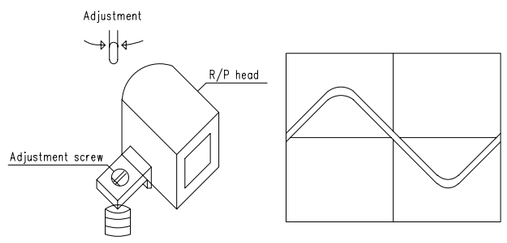

Fig.1-10 Azimuth speed adjustment

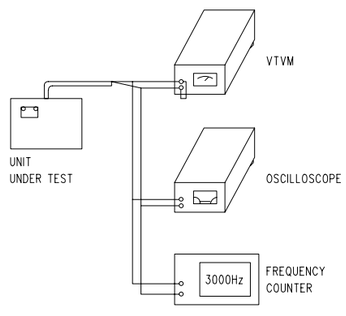

Fig.1-11